



MECHANICAL DATA SHEET: VESSEL

PLANT ITEM No.

24590-LAB-MV-RLD-VSL-00165



Project:	RPP-WTP	P&ID	24590-LAB-M6-RLD-P0001
Project No:	24590	Process Data Sheet:	NIA
Project Site:	Hanford	Vessel Drawing	24590-LAB-MV-RLD-P0003
Description:	Hot Cell Drain Collection Vessel		

Reference Data

ISSUED BY
RPP-WTP PDC

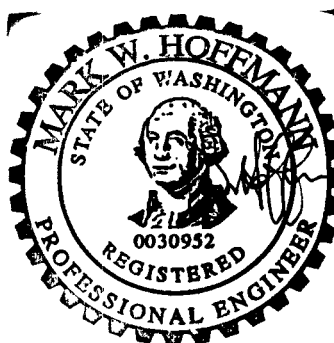
Charge Vessels (Tag Numbers)	None
Pulsejet Mixers / Agitators (Tag Numbers)	None
RFDs/Pumps (Tag Numbers)	None

Design Data

Quality Level	QL-2	Fabrication Specs	24590-WTP-3PS-MV00-TP001		
Seismic Category	SC-III	Design Code	ASME Sec VIII Div 1		
Service/Contents	Radioactive Liquid Drain	Code Stamp	Yes		
Design Specific Gravity	1.02	NB Registration	Yes		
Maximum Operating Volume	gal 6615 (Note 5) 	Weights (lbs)	Empty	Operating	Test
Total Volume	gal 9100 (Note 5) 	Estimated	21185	75014	97966
		Actual **			

Inside Diameter	inch	192	Wind Design	Not Required	
Length/Height (TL-TL)**	inch	27	Snow Design	Not Required	
		Vessel Operating Vessel Design Coil/Jacket Design	Seismic Design	24590-WTP-3PS-FB01-T0001 & 24590-WTP-3PS-MV00-TP002	
Internal Pressure	psig	0	15	NIA	Seismic Base Moment **
External Pressure	psig	0.15	7	NIA	Postweld Heat Treatment
Temperature	°F	78	240	NIA	Corrosion Allowance
Min. Design Metal Temp	°F	-20			Hydrostatic Test Pressure **

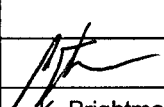
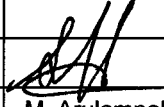
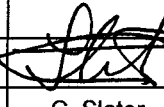
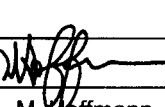
Note: Please note that source, special nuclear and byproduct materials, as defined in the Atomic Energy Act of 1954 (AEA), are regulated at the U.S. Department of Energy (DOE) facilities exclusively by DOE acting pursuant to its AEA authority. DOE asserts, that pursuant to the AEA, it has sole and exclusive responsibility and authority to regulate source, special nuclear, and byproduct materials at DOE-owned nuclear facilities. Information contained herein on radionuclides is provided for process description purposes only.



3/28/05

EXPIRES 12/10/06

This Bound Document Contains a total of 2 sheets.

1	3/28/05	Issued for Permitting Use				
0	3/1/04	Issued for Permitting Use	K. Brightman	M. Arulampalam	C. Slater	M. Hoffmann
REV	DATE	REASON FOR REVISION	PREPARER	CHECKER	REVIEWER	APPROVER



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


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Materials of Construction

Component	Material	Minimum Thickness / Size	Containment
Top Head	UNS N08367	See Drawing	Auxiliary
Shell	UNS N08367	See Drawing	Primary
Bottom Head	UNS N08367	See Drawing	Primary
Support (Skirt)	SA-240-304 (0.030% Carbon Max)	**	NIA
Jacket/Coils/Half-Pipe Jacket	NIA	NIA	NIA
Internals	UNS N08367	See Drawing	Secondary
Pipe	UNS N08367/ N06022IN10276, Note 4 	See Drawing	Note-1
Forgings/ Bar stock	UNS N08367	See Drawing	Note-1 for Nozzle Necks
Bolting/Gaskets	None	NIA	NIA

Miscellaneous Data

Orientation	Vertical	Support Type	Skirt
Insulation Function	Not Applicable	Insulation Material	Not Applicable
Insulation Thickness (inch)	Not Applicable	Weld Surface Finish	De-scaled as laid

Remarks

**** To be confirmed by Seller****Note 1: Nozzle necks below maximum operating level are primary, others auxiliary.****Note 2: Design life is 40 years****Note 3: Radiography 100% required on the primary confinement welds ****Note 4: Material of construction for nozzle NO. 3 and the dip pipe shall be alloy UNS N06022 ****Note 5: Vessel volumes are approximates and do not account for manufacturing tolerances, nozzles, and displacement of internals.****Note 6: Quality level and seismic category designations on this datasheet reflect requirements beyond those stipulated by the vessel safety function****Note 7: Contents of this document are Dangerous Waste Permit Affecting.**